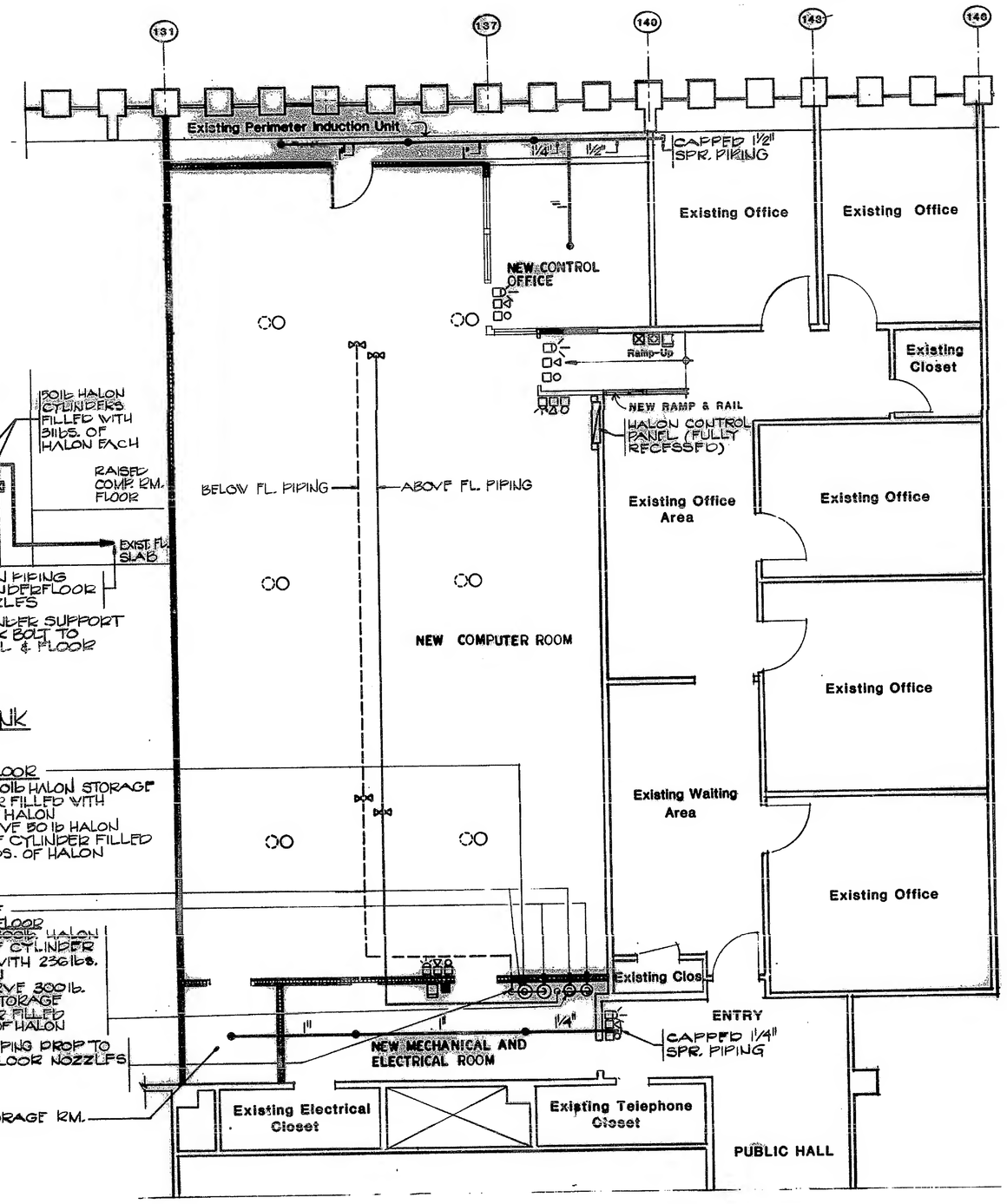
HALON CALCULATION

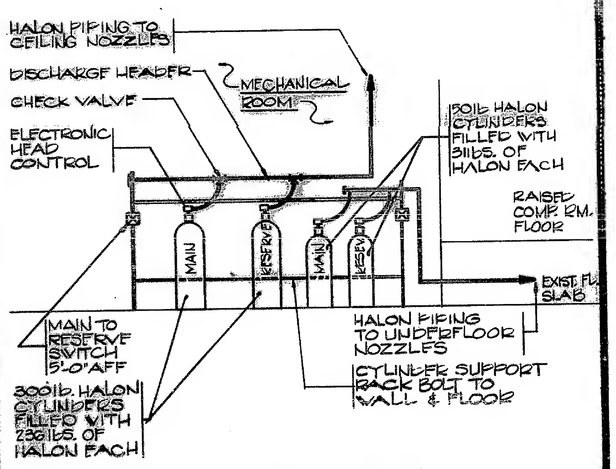
ROOM	SQ. FT.	HEIGHT	CU. FT.	6% CONCEN	lbs. HALON
COMP. ROOM	1251.5	7.62'	9,536	.0247	235.5
COMP. ROOM UNDER FLOOR	1251.5	1.0'	1251.5	.0247	30.9

LEGEND

	DISCHARGE ALARM BELL
	DISCHARGE HORN
	FLASHING LIGHT ASSEMBLY
	ABORT BUTTON
	FIRE DEPT. PURGE FAN SWITCH
	IONIZATION SMOKE DETECTOR (ABOVE FL.)
	IONIZATION SMOKE DETECTOR (BELOW FL.)
	HALON CONTROL PANEL (RECESSED)
	PORTABLE BREATHING APPARATUS
	HALON DUAL DISCHARGE NOZZLE
	MANUAL PULL STATION



PARTIAL PLAN - 104 TH FLOOR



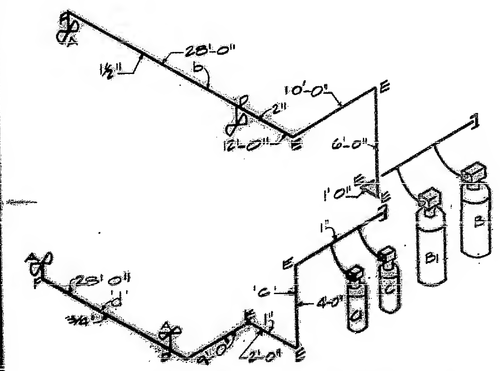
SCHEMATIC OF HALON TANK CONNECTIONS
NO SCALE

BELOW FLOOR
(1) MAIN 50 lb HALON STORAGE CYLINDER FILLED WITH 31 lbs. OF HALON
(1) RESERVE 50 lb HALON STORAGE CYLINDER FILLED WITH 31 lbs. OF HALON

MAIN
RESERVE
ABOVE FLOOR
(1) MAIN 300 lb HALON STORAGE CYLINDER FILLED WITH 236 lbs. OF HALON
(1) RESERVE 300 lb. HALON STORAGE CYLINDER FILLED 236 lbs OF HALON

HALON PIPING DROP TO UNDERFLOOR NOZZLES

NEW STORAGE RM.



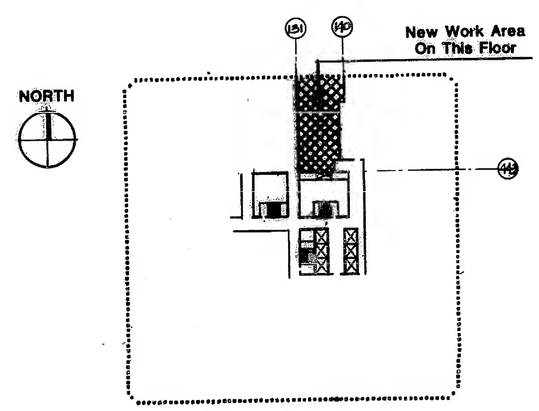
HALON PIPING SCHEMATIC NO SCALE

LEGEND

A 360° SPLIT FAN NOZZLE
B COMPUTER RM. STORAGE TANK 1-300 lb TANK FILLED W/236 lbs OF HALON MINI.
B_1 COMPUTER RM. RESERVE TANK
C COMPUTER RM. UNDERFLOOR STORAGE TANK- 1-50 lb TANK FILLED W/ 31 lbs. OF HALON MINI
C_1 COMPUTER RM UNDERFLOOR RESERVE TANK
D TEE & CLOSE NIPPLE
E 90° ELBOW
F 90° ELBOW & CLOSE NIPPLE
G CHECK VALVE

PIPE SIZE CALCULATIONS

SECTION	FLOW (lbs/SEC)	FRICTION FACTOR	PIPE SIZE
a	23.6	.25	1½"
b	11.8	.21	1"
c	5.1	.15	3/4"
d	1.55	.11	1/2"



KEY PLAN
NOT TO SCALE

CSA/TAA NO. 232/
DATE APPROVED 9/6/82

GOLDMAN SOKOLOW COPELAND, P.C.
CONSULTING ENGINEERS
79 MADISON AVENUE NEW YORK, N.Y. 10016
212-LE 2-2818

REVISIONS		
NO.	DESCRIPTION	DATE

CANTOR, FITZGERALD SECURITIES CORP.
ONE WORLD TRADE CENTER NEW YORK, N.Y.

PROJECT TITLE NEW COMPUTER ROOM-2
FLOOR 104TH
DRAWING TITLE HALON

DATE 15-7-82 | JOB NUMBER 7002 | DRAWN | SCALE: 1/4"=1'-0" | DRAWING NUMBER FP-1